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## I. CLAIM AMENDMENTS

Please amend the claims as indicated in the following listing:

- 1. (currently amended) An apparatus comprising:
  - a firewall, having a processor and a memory,

wherein the firewall is part of a router that creates a plurality of Virtual Local Area Networks using a network switch;

wherein the network switch is connected to the firewall;

wherein the memory contains a Virtual Local Area Network rules table;

wherein the Virtual Local Area Network rules table allows an administrator to designate a trust level for each of the plurality of Virtual Local Area Networks;

wherein only the firewall is used to protect each of the plurality of Virtual Local Area Networks in accordance with a designated trust level;

wherein the designated trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the designated trust level reduces the residence time of the packet in the firewall.

- (previously amended) The apparatus of claim 1 wherein the Virtual Local Area Network rules table further comprises:
  - defining the relationship between the trust levels, the rules, and the plurality of Virtual Local Area Networks.
- 3. (previously amended) The apparatus of claim 2, wherein the firewall further comprises: a configuration program, wherein the configuration program allows a user to add, delete, or

modify the Virtual Local Area Network rules table and a plurality of trust levels in the Virtual Local Area Network rules table.

- 4. (previously amended) The apparatus of claim 2, wherein the firewall further comprises: a security program, wherein the security program analyzes a packet and determines if the Virtual Local Area Network rules table permits or denies the packet.
- 5. (currently amended) The apparatus of claim 4, wherein the security program comprises: instructions for determining a destination of the packet;

instructions for determining an appropriate rule to use to analyze the packet using the Virtual Local Area Network rules table;

instructions for analyzing the packet using the appropriate rule;
instructions for determining if the packet is permitted under the appropriate rule;
responsive to a determination that the appropriate rule permits the packet, instructions
for permitting the packet; and

responsive to a determination that the rules deny the packet, instructions for denying the packet.

- 6. (previously amended) The apparatus of claim 5, wherein the security program further comprises: responsive to a determination that the rules do not permit or deny the packet, instructions for denying the packet.
- 7. canceled.
- 8. (currently amended) A router comprising:

a switch connected to a firewall and a plurality of computer networks; and wherein the firewall allows an administrator to configure a plurality of trust levels and to associate a trust level with each of the plurality of computer networks;

wherein the firewall serves each of the plurality of computer networks in accordance with the trust level associated with each of the plurality of computer networks;

wherein the trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the trust level reduces the residence time of the packet in the firewall.

- 9. (original) The router of claim 8 wherein the switch comprises a sub-switch, the sub-switch being assigned one of a plurality of trust levels.
- 10. (original) The router of claim 8 wherein the firewall analyzes a packet using some of the rules; and wherein the rules used in the lower trust levels are excluded from the rules used to analyze the packet.
- 11. (original) The router of claim 8, wherein the firewall further comprises: a configuration program, wherein the configuration program allows a user to add, delete, or modify the rules and trust levels in the table.
- 12. (currently amended) The router of claim 8, wherein the firewall further comprises: a security program, wherein the security program analyzes athe packet and determines if the rules permit or deny the packet.
- 13. (original) The router of claim 12, wherein the security program comprises: instructions for determining the sub-switch location of the packet; instructions for determining a source of the packet; instructions for determining a destination of the packet; and instructions for determining if the packet is attempting to go to a higher trust level;

responsive to a determination that the packet is not attempting to go to a higher trust level, instructions for permitting the packet.

14. (original) The router of claim 13, wherein responsive to a determination that the packet is attempting to go to a higher trust level, the security program further comprises:

instructions for determining the appropriate rules to use to analyze the packet using the table;

instructions for analyzing the packet using the rules;

instructions for determining if the packet is permitted under the rules;

responsive to a determination that the rules permit the packet, instructions for

permitting the packet; and

responsive to a determination that the rules deny the packet, instructions for denying the packet.

- 15. (original) The router of claim 14, wherein the security program further comprises: responsive to a determination that the rules do not permit or deny the packet, instructions for denying the packet.
- 16. (original) The router of claim 8 wherein the firewall further comprises: a table defining the relationship between the trust levels, the rules, and the computer networks.
- 17. (currently amended) A method for analyzing a packet using a firewall which creates a plurality of trust levels for a plurality of computer networks, the method comprising:

using a single router containing the firewall to service each of the plurality of computer networks by performing the steps of:

determining the destination of the packet;

accessing a plurality of rules;

determining the appropriate rules to use to analyze the packet;

analyzing the packet using the rules;

determining if the packet is permitted under the rules;

responsive to a determination that the rules permit the packet, permitting the packet;

and

responsive to a determination that the rules deny the packet, denying the packet;

wherein a trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny the packet; and

wherein the trust level reduces the residence time of the packet in the firewall.

- 18. (original) The method of claim 17 further comprising: responsive to a determination that the rules do not permit or deny the packet, denying the packet.
- 19. (currently amended) The method of claim 17 wherein a table defines the relationship between the <u>plurality of trust levels</u>, the rules, and the computer networks.
- 20. (currently amended) A method for analyzing a packet using a firewall which creates a plurality of trust levels for a plurality of computer networks, the method comprising:

using a single router containing the firewall to service each of the plurality of computer networks by performing the steps of:

determining the sub-switch location of a packet;

determining a source of the packet;

determining a destination of the packet;

determining if the packet is attempting to go to a higher trust level; and responsive to a determination that the packet is not attempting to go to a higher trust level, permitting the packet;

wherein a trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the trust level reduces the residence time of the packet in the firewall.

21. (original) The method of claim 20, wherein responsive to a determination that the packet is attempting to go to a higher trust level, the method further comprises:

determining the appropriate rules to use to analyze the packet using the table; analyzing the packet using the rules;

determining if the packet is permitted under the rules;

responsive to a determination that the rules permit the packet, permitting the packet; and

responsive to a determination that the rules deny the packet, denying the packet.

- 22. (original) The method of claim 21 wherein the security program further comprises:
  responsive to a determination that the rules do not permit or deny the packet, denying the packet.
- 23. (original) The method of claim 20 wherein the firewall further comprises: a table defining the relationship between the trust levels, the rules, and the computer networks.

24. (currently amended) A program product operable on a computer, the program product comprising:

a computer-usable medium having instructions encoded thereon, for causing a computer to use a single router containing a firewall to service each of a plurality of computer networks by

determining the destination of a packet;

accessing a plurality of rules;

determining an appropriate rule to use to analyze the packet;

analyzing the packet using the appropriate rule;

determining if the packet is permitted under the appropriate rule;

responsive to a determination that the appropriate rule permits the packet,-i

permitting the packet; and

responsive to a determination that the appropriate rule denies the packet, denying the packet;

wherein a trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the trust level reduces the residence time of the packet in the firewall.

25. (previously amended) The program product of claim 24 further comprising: responsive to a determination that the plurality of rules do not permit or deny the packet, instructions for denying the packet.

- 26. (previously amended) The program product of claim 24 wherein a table defines the relationship between the trust levels, the rules, and the plurality of computer networks.
- 27. (currently amended) A program product operable on a computer, the program product comprising:

a computer-usable medium having a plurality of instructions encoded thereon;

wherein the instructions cause a single router containing a firewall to secure each of a plurality of computer networks, and cause an administrator to assign a plurality of trust levels among the plurality of computer networks; to determine the sub-switch location of a packet;

to determine a source of the packet;

i-to determine a destination of the packet;

to determine if the packet is attempting to go to a higher trust level; and responsive to a determination that the packet is not attempting to go to a higher trust level, to permit the packet;

wherein a trust level is a security level associated with a particular set of rules in the firewall;

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the trust level reduces the residence time of the packet in the firewall.

28. (original) The program product of claim 27, wherein responsive to a determination that the packet is attempting to go to a higher trust level, the method further comprises:

instructions for determining the appropriate rules to use to analyze the packet using the table;

instructions for analyzing the packet using the rules;

instructions for determining if the packet is permitted under the rules;

responsive to a determination that the rules permit the packet, instructions for permitting the packet; and

responsive to a determination that the rules deny the packet, instructions for denying the packet.

- 29. (original) The program product of claim 28 wherein the security program further comprises: responsive to a determination that the rules do not permit or deny the packet, instructions for denying the packet.
- 30. (original) The program product of claim 27 wherein the firewall further comprises: a table defining the relationship between the trust levels, the rules, and the computer networks.
- 31. (currently amended) A firewall capable of creating a plurality of trust levels for a plurality of computer networks comprising:
  - a router containing the firewall;
  - a plurality of rules;
  - a table defining the relationship between the trust levels, the rules, and the computer networks;
  - a configuration program, wherein the configuration program allows a user to add, delete, or modify the rules and trust levels in the table;
  - a security program, wherein the security program analyzes a packet and determines if the rules permit or deny the packet, the security program comprising:

instructions for determining the destination of the packet;

instructions for determining the appropriate rules to use to analyze the packet using the table;

instructions for analyzing the packet using the rules;

instructions for determining if the packet is permitted under the rules;

responsive to a determination that the rules permit the packet, instructions for permitting the packet;

responsive to a determination that the rules deny the packet, instructions for denying the packet; and

responsive to a determination that the rules do not permit or deny the packet, instructions for denying the packet;

wherein only the firewall is used to protect each of the plurality of computer networks;

wherein a trust level is a security level associated with a particular set of rules in the firewall:

wherein a residence time is the time required for the firewall to analyze and either permit or deny a packet; and

wherein the trust level reduces the residence time of the packet in the

firewall.

32. canceled.